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Apr-Jul 77.

OCCUPATIONAL SURVEY REPORT.



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MISSILE WARNING AND SPACE SURVEILLANCE
SENSOR REPAIR
CAREER LADDER
AFSC 309X0.

AFPT-90-309-222

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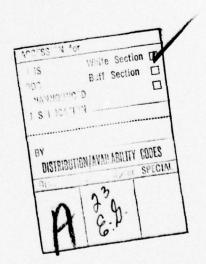
OCCUPATIONAL SURVEY BRANCH
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LACKLAND AFB TEXAS 78236

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PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Missile Warning and Space Surveillance Sensor Repair Systems Specialty, AFSC 309X0.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Captain Thomas E. Ulrich. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Occupational Measurement center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is appro-

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

MISSILE WARNING AND SPACE SURVEILLANCE SENSOR REPAIR AFSC 309X0

INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned to Missile Warning and Space Surveillance Sensor Repair Systems Specialty (AFSC 309X0). The data for this report were collected during the period April through July 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel assigned to selected major commands.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

ADMINISTRATION

The Electronic Principles Inventory was administered by mail to AFSC 30950 airmen worldwide. Responses from 60 individuals represented 63 percent of the total of all AFSC 30950 personnel. There are 96 AFSC 30950 airmen assigned, all in the CONUS, 95 of them assigned to ADCOM. They are divided into two shreds, 60 30950A personnel and 36 30950B personnel.

TABLE 1
EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
A THE RESERVE	MATHEMATICS	A1	2
2	DIRECT CURRENT AND VOLTAGE	A15	2
2 3	RESISTANCE	A24	2
4	MULTIMETER USES	B52	2
5	ALTERNATING CURRENT	B61	2 2 2 3 4
6	INDUCTORS AND INDUCTIVE	B67	
•	REACTANCE	DD/	4
7	CAPACITORS AND CAPACITIVE	C92	Third 4
	REACTANCE	092	5
8	TRANSFORMERS	C128	6
9	MAGNETISM		
		C171	7
10	RCL CIRCUITS	D185	8
11 -	SERIES AND PARALLEL RESONANCE	D229	
Landy Cartifica	(TIME CONSTANTS)	2000	10
12	FILTERS	D239	10
13	COUPLING	E261	11
14	SOLDERING	E273	11
15	RELAYS	E294	12
16	MICROPHONES	F314	12
17	SPEAKERS	F327	13
18	OSCILLOSCOPES	F342	13
19	SEMICONDUCTOR DIODES	G354	13
20	TRANSISTORS	G404	15
21	TRANSISTOR AMPLIFIERS	G428	16
22	SOLID-STATE SPECIAL PURPOSE		
	DEVICES	H477	19
23	POWER SUPPLIES	H483	19
24	OSCILLATORS	H512	19
25	MULTIVIBRATORS	1539	20
26	LIMITERS AND CLAMPERS	I 555	21
27	ELECTRON TUBES	1565	21
28	ELECTRON TUBE AMPLIFIERS	J609	
	AND CIRCUITS		22
29	SPECIAL PURPOSE ELECTRON	J616	
	TUBES		23
30	HETERODYNING, MODULATION, AND	J632	
	DEMODULATION		23
31	AM SYSTEMS	K638	23
32	FM SYSTEMS	K666	24
	THE STOTE OF	NOOO	Mar sign

TABLE 1 (CONTINUED)

EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER-	GPSUM PAGE NUMBER
33	NUMBERING SYSTEMS	K685	25
34	LOGIC FUNCTIONS	L695	25
35	BOOLEAN EQUATIONS	L708	26
36	COUNTERS	L733	27
37	TIMING CIRCUITS	M757	27
38	USE OF SIGNAL GENERATORS	M769	28
39	MOTORS AND GENERATORS	M779	28
40	METER MOVEMENTS	N808	29
41	SATURABLE REACTORS AND	N818	
	MAGNETIC AMPLIFIERS		29
42	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	0845	30
44	PULSE MODULATION SYSTEMS	0875	31
45	ANTENNAS	0914	32
46	TRANSMISSION LINES	P953	34
47	WAVEGUIDES AND CAVITY	P984	
	RESONATORS		35
48	MICROWAVE AMPLIFIERS AND	P1034	
	OSCILLATORS		37
49	REGISTERS	Q1110	39
50	STORAGE DEVICES	Q1117	40
51	DIGITAL TO ANALOG CONVERTERS	Q1126	40
52	PHANTASTRONS	Q1140	41
53	SCHMITT TRIGGERS	R1141	41
54	CABLE FABRICATION	R1144	41
55	INPUT/OUTPUT DEVICES	S1146	41
56	PHOTO SENSITIVE DEVICES	S1149	41
57	SYNCHRONOUS VIBRATIONS	\$1150	
	(CHOPPER CIRCUITS)		41
58	INFRARED	T1159	41
59	LASERS	T1186	42
60	DISPLAY TUBES	T1220	43
61	PROGRAMMING	U1234	43
62	DB AND POWER RATIOS	U1255	44

PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the three selected groups identified for this report. Pages 2-44 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Soldering (pp. 11-12) and Oscilloscopes (p. 13) and Power Supplies (p. 19) to low in areas such as Infrared (pp. 41-42) and Display Tubes (p. 43). In addition, some areas appear to discriminate between 30950A and 30950B, such as Oscillators (pp. 19-20), Counters (p. 27) and Single Sideband (p. 30). Additional AFSC 309XO data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDI X

PCT MBRS RESPONDING YES. BY SELECTED GRPS

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION GATA FOR SELECTED GROUPS IN THE 30950A/B CAREER FIELD.

REPORTS ON THE FOLLOWING SHOUPS WERE REQUESTED

GROUP IDENTITY = SPC276 ALL AIRMEN DAYSC 30950A/B
GROUP IDENTITY = SPC279 ALL AIRMEN DAYSC 30950A
GROUP IDENTITY = SPC280 ALL AIRMEN DAYSC 30950B

GPSM15 PAGE 1

CONTAINING 60 MEMBERS.
CONTAINING 18 MEMBERS.

	ATICS						DIRECT CURRENT AND VOLTAGE			NCE		
	MATHEMATICS						DIRECT			RESISTANCE		
5PC 280	19	23	10 24	3.5	992	2. 8.	27 0	12 12	68 83 86	9 9 9	2 %	86
279 279 89	19	33	0 7 0	33 11 23	302	33	3 = 3	28 17	83 83	0 m 3 0	6 6	8 3
276 276 85	67	58 27 38	30 2	13	97 2	5 m	38.2	13	85	M 40 0	0.0	8.5
DY-TSK A 1 A1-C1 IN YOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS WETERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE VOLTAGE, RESISTANCE, ETC., BY POWERS	A 2 A1-DZ DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDERS OR MAINTENANCE HANDALS, IN MHICH IT IS NECESSARY FOR YOU TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL WAY		A 1-05 DO TOU CONVERT NOTBERS 7 A 1-07 DO YOU USE LOGARITHM TA CALCULATIONS. 8 A 1-05 DO YOU SOLVE QUADRATIC	A 9 A1-D9 DO YOU USE THE NATURAL SYSTEM OF LOSARITHMS. A 10 A1-10 OF YOU PEPFORM CALCULATIONS ON VOCION COLNITILES. A 11 A1-11 DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE, COSINE, OR TAKEN.	A 12 A1-12 DG YOU DEFERRINE AREAS OF PLANE FIGURES. A 13 A1-13 DG YOU SOLVE OR USE SIMULTANEOUS EQUITIONS. A 14 A1-14 DG YOU SOLVE OR USE PROPORTIONS.	A2-02	17 A2-03 DO YGU USE 18 A2-04 DO YOU USE 19 A2-05 DO YOU USE 2G A2-06, DO YOU USE	21 A2-07 DO YOU USE THE TERM NE 22 A2-08 DO YOU USE THE TERM CO 23 A2-09 DO YOU USE THE TERM PR	A3-51 DO YOU WORK WITH PESIS A3-52 DO YOU INSPECT RESISTO A3-53 DO YOU CLEAN RESISTORS A3-64 DO YOU ADJUST RESISTOR	1 29 A3-05 DO TOU CHELN UMAIL VALUE ON RESISTONS. 1 29 A3-05 DO YOU OSE OR REPERT TO TEMPERATURE COEFFICIENTS FOR PRESISTONS ON ANY TASKS YOU PERFORM.	RESISTOR SYMBOLS ON TAPPED RAS-DY DO YOU IDENTIFY OR CLAY WITH AS CAPBON, FIXED WIRE, POTENTIONETEP.	A 33 A3-16 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC VALUE OF RESISTANCE.

		ALTERNATING CURRENT											INDUCTORS AND	INDUCTIVE REACTANCE														The second secon									
260	11	88	83	79	0 0	76		1.6	7.6	8 .	57	09	3.8	12	01	•	. 1		19					12		14	10	19			36	and the second of	5 1	53	3.8	-	57
279	83	8 3	8 6	9	5 6	78		W 0	72	1 M	72	67	6.1	a	٥	9:	:		9		,	0		9		11	11	11		67	62		22	*	72	22	78
276.	15	8.7	88	63	2 2	11	1	18	7,5	82	62	62	4.5	æ	ا ت	12			15			2		10		13	8	17		15	37	-	17	22	8	30	63
DY-TSK	B 61 B2-01 DG YGU USE OR RFFER TO THE TERM EFFECTIVE VOLTAGE	62 BZ-DZ DO YOU USE OR REFER TO THE	82-03 DO YOU USE OR REFER TO THE TERM	64 BZ-04 DO YOU USE OR REFER TO THE TERM	66 B2-06 DO YOU USE OR REFER TO THE	67 83-01 DO YOU WORK WITH INDUCTORS OR CI	INDUCTORS, CHOKES,	DO YOU INSPECT	70 83-03 00	71 83-05 DO YOU REMOVE OR REPLAC	72 83-06 DO YOU USE OR	73 83-07 00 YOU USE OR REFER TO	74 63-06 DO YOU USE OR REFER TO	75 83-09 DO YOU USE OR REFER TO	76 87-10 30 YOU US! OR REFER TO	77 B3-11 DO YOU USE OR REFER TO	0	TURNS OF THE COIL.	REFER TO THE GENERAL PULE TH	0.16	SECTIONAL AREA OF THE CORE.	201	LENGTH.	E OR	INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE PERMEMBARILITY OF THE CORE MATERIAL.		6 83 53-17 00 YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTANCE	8 84 83-18 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS	IN PARALLEL.	B 85 85-19 09 YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN SERIES-PARALLEL CIRCUITS.	DO YOU USE OR	LAGS VOLTAGE IN AC	DO YOU CALCULATE INDUCTIVE	SE SS-ZZ DO TOU USE ON	NO RI-23 DO YOU SORK WI	90 83-24 00	DO YOU WORK WITH RADIO

			CAPACITORS AND	CAPACILITE NEACIONCE																			The second secon									e e e e e e e e e e e e e e e e e e e		A STATE OF THE PARTY OF THE PAR
SPC 280	74	83	81	16	1	81	24	101		92	16	21	=	36	20	81	83	83	14		12	11		12		10	24	54		0	62	31		10
SPC . 279	19	83	78	78	18	18	22	, 0	-	68	83	11	8	50	72	86	83	8/	28		=	=	-	==		39	39	3.9		<i>3</i>	39	33		22
SPC 276	12	83	80	11	13	60	28	. 60		80	78	50	5.	04	57	83	82	28	18		15	15	-	12		52	28	88		4.5	32	32		20
0Y-15K		C 93 C1-02 DO YOU INSPECT CAPACITORS.	C1-03 DO YOU	95 C1-04 DO YOU ADJUST CAP	96 C1-05 DO YOU TEST CAPAC	97 CI-06 DO YOU DISCHARGE	C 90 C1-OR DO YOU HAND OR REFER TO DISTRIBUTED CAPACITANCE.	100 C1-09 DO YOU USE OR	A DIELECTRIC.	C 101 C1-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR PICOFARADS.	102 C1-11 DO YOU USE OR	C1-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT	THE CITIS DO YOU USE OR	105 C	176 C1-15 DO YOU USE OR REF	CI-16 DO YOU WORK WITH CAPACITORS IN	108 CI-17 DO YOU WORK WITH CAPACITORS IN AC CIRCUITS	C 179 CI-18 DO YOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC	C 110 C1-19 DO YOU WOPK WITH CAPACITORS IN DON'T REMEMBER WHICH	CIRCUITS	C 111 C1-20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR CAPACITORS USING FORMULAS	C 112 C1-21 DO YOU USE OR REFER TO THE GENERAL PULE THAT	DIELECTRIC CONSTANT	C 113 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT	CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL TO THE DIFLECTRIC THICKNESS	C 114 C1-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	C 115 C1-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	C 116 C1-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	IN SERIES-PARALLEL CIRCUITS	CAPACITCRS, IT ONLY AP	FER TO THE GENERAL RULE THAT	ER TO THE GENERAL PULE TH	FREQUENCY	C 120 C1-29 DO YOU CALCULATE CAPACITIVE REACTANCE

SPC SPC SPC 276 279 280	72 72 71 67 61 69 82 83 81 77 78 76 77 83 74 77 83 74	73 83 69 83 83 83 60 78 81 60 61 60 78 83 76 TRANSFORMERS 82 83 81 12 6 14	7. 6 7. 3 0 5 8 11 7 12 11 12		12 11 12 63 83 83 80 83 79 67 72 64 30 28 31	43 44 43 80 89 76
0Y-TSK	ROTOR-STATOR (VARIABLE) CAPA COMPRESSION (TRIMHER) CAPACI ELECTROLYTIC (FIXED) CAPACIT PAPER (FIXED) CAPACITORS HICA (FIXED) CAPACITORS CEPAMIC (FIXED) CAPACITORS			CURRENT OR VOLTAGE RATIOS C2-13 DO YOU PEFED TO REFLECTED IMPEDANCE WHEN K RANSFORMERS C2-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FO TRANSFORMERS C2-13 DO YOU WORK WITH AUTOTRANSFORMERS C2-15 DO YOU WORK WITH AUTOTRANSFORMERS C2-15 DO YOU WORK WITH AUDIO TRANSFORMERS C2-15 DO YOU WORK WITH AUDIO TRANSFORMERS C2-17 DO YOU WORK WITH AUDIO TRANSFORMERS	W 2 2 2	DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN TUPNS PATIO 150 C2-23 50 YOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN TURNS RATIO 151 C2-24 GO YOU PEFEY TO BASIC TRANSFORMER SCHEMATIC SYMBOLS FOR TRANSFORMERS

PCT MBRS RESPONDING "YES" BY SELECTED GRPS

GPSHIS PAGE 7

																				MAGNETISM		-			
-															and the same										
280	74	7.	7.	20	55	67	\$	50	36	20	12	1	25	20	9 5	00	38	12	38	2	12	12	17	11	
279	88	8	88	99	67	7.2	6.7	22	22	67	=	٥	8	83	27	72	7.2	:	18	0	•	9	9	28	
216	13	18	78	25	28	89	25	27	32	55	12	-	63	09	50	55	æ ,	12	50	-	c c	10	13	50	
	YOU REFER TO MULTIPLE SECONDARY-WINDINGS SCHEMATIC	CSTROUGH TO YOU REFER TO MULTIPLE TAP SCHEMATIC SYMBOLS FOR	ER TAP SCHEMATIC SYMBOLS, FOR	C2-28 DO YOU REFER TO AIR CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS.	CORE SCHEMATIC SYMBOLS FOR	C2-30 DO YOU REFER TO COMBINATIONS OF THE ABOVE SCHEMATIC	2-31 DO YOU DETERMINE PHASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING SCHEMMITC SYMBOLS	C2-32 DO YOU DETERMINE OR REFER TO THE TYPE OF CORE IN	SE THE GENERAL PULE THAT THE	STEP	C2-35 DO YOU CALCULATE VOLTAGE PATIOS FOR TRANSFORMERS.	CURRENT RATIOS FOR TRANSFORMERS	E ANY TASKS DEALING WITH THREE		CATE THREE PHASE TOANSFORMERS		ACE COMPLETE THREE PHASE	C2-43 DO YOU REMOVE OR REPLACE THREE PHASE TRANSFORMER	TO PERMANENT MAGNETS	TO RETENTIVITY OF MAGNETIC	TO RELUCTANCE OF MAGNETIC	TO PERMEABILITY OF MAGNETIC	TO RESIDUAL MAGNETISM	MAGNETIC	
0y-15k	2-25 DO YOU REFER TO MULT.	U REFER TO MULTI	C2-27 DO YOU PEFER TO CENTER TRANSFORMERS	IU REFER TO AIR C	C2-29 DO YOU REFER TO IRON TRANSFORMERS	2-30 DO YOU REFER TO COMBI	CZ-31 DO VGU DETERMINE PHASE SECONDARY AND PRIMARY VOLTAGE SCHEMATIC SYMBOLS	2-32 DO YOU DETERMINE OR RETREMENTED OF THE	C2-33 DO YOU PEFER TO GA USE	C2-34 DO YOU USE OR REFER TO	U CALCULATE VOLT	311	YOUR JOB INVOLVE	C2-38 DO YOU INSPECT THREE	C2-39 DO YOU CLEAN OR LUBRICATE	C2-41 DO YOU TROUBLESHOOT THREE	C2-42 DO YOU REMOVE OR REPLA	2-43 DO YOU PEMOVE OR REPL	OR REFER	OR REFER	OR REFER	USE OR REFER	USE OR REFER	USE OR REFER	
	C 152 C2-25 D0 Y0	C 153 C2-26 DO YOU I	C 154 C2-27 DO YOU TRANSFORMERS	C 155 C2-28 DO YOU TRANSFORMERS	C 156 C2-29 00 YOU TRANSFORMERS	C 157 C2-36 DO YO	C 158 CZ-31 DO YOU DETERN SECONDARY AND PRIN	C 159 C2-32 DO YO	C 160 C2-33 DO YO	C 161 C2-34 DO YOU USE C	C 162 C2-35 DO YOU CALCUL	C 163 C2-36 DO YOU CALCUL	164 C2-37 DOES YOUR JOB PHASE TRANSFORMERS		166 62-39 00 40	C2-41 D0	169 C2-42 DO YOU F	C 170 C2-43 DO YO	171 0	C3-C3 D0	C 174 C3-04 00 YOU USE	C 175 C3-05 D0 YCU	176	C3-07 00	FLUX

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PEPCENT MEMBERS PERFORMING

SPC SPC SPC 276 279 280	7 0 10 12 11 12 40 56 33 15 11 17 13 6 17	65 78 60 25 28 24 RCL CIRCUITS 20 17 21 25 72 26	17 27 22	36 44 36 37 40 33 50 26 37 44 26	62 83 52 70 89 62 55 83 43 67 83 60	60 76 52 63 83 55 30 50 21
DY-TSK	C 179 C3-09 DO YOU USE OR REFER TO DOMAIN THEORY OF MAGNETISM C 18C C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION C 181 C3-11 DO YOU USE OR REFER TO FLUX DENSITY C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL PULE THAT FOR MAGNITIC POLES, LIKE POLES REPEL AND UNLIKE POLES AITRACT C 183 C3-13 DO YOU USE THE LEFT HAND THUMR PULE TO FIND THE DIPECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES C 184 C3-14 DO YOU USE THE LEFT HAND THUMB PULE TO FIND THE NORTH POLE OF A CURRENT CARRYING COIL	D 185 D1-D1 D0 YOU WORK WITH RC, LR, RCL CIRCUITS IN YOUR PRESENT JOB D 186 D1-D2 D0 YOU USE OR REFER TO VECTORS WHEN "OFKING "ITH RCL CIRCUITS O 187 D1-D3 DC YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORRING WITH RCL CIRCUITS CIRCUITS		D 192 D1-09 D3 VCU USF OR PFFFR TO TRUE PAKER (PT) WHEN ACRING D 193 D1-09 DC VCU USF OR RFFFR TO MAXIMUM POWEP (PM) LHEN WORNING WITH RCL CIRCUITS D 194 D1-10 D0 VCU USF OR RFFFR TO AVERAGE POWEP (PAVE) WHEN WORKING WITH RCL CIRCUITS D 195 D1-11 D9 VCU USF OR RFFFR TO APPAPENT POWER (PA) WHEN BORKING WITH RCL CIRCUITS D 195 D1-11 D9 VCU USF OR RFFFR TO POWER FACTOR (PF) WHEN WORKING	MITH RCL CIRCUITS D 197 D1-13 DO YOU USE OR REFER TO RESONANT CIRCUITS WHEN MORNING WITH RCL CIRCUITS D 198 D1-14 DO YOU USE OR REFER TO RANDWIDTH WHEN BORKING WITH D 199 D1-15 DO YOU USE OR REFER TO SELECTIVITY WHEN BORKING WITH D 20D D1-15 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN BOOKING WITH RCL CIRCUITS	

PCT MBRS RESPONDING "YES" BY SELECTED GRPS

	SERIES AND	PARALI FL RESONANCE	(TIME CONSTANTS)																							FILTERS																		the state of the same of the s
280	0,4	•	3	54	54	19			2	12		17			12			12	:		62		19	55	55	19	19	62	2 4	3	62	9	2 4	20	3 :				21		:	45		4,5
279	18		8	#	33	19			9	0		11			22			22	:		83		83	83	8 3	83	78	2	7 8		8	8	8	8	12			2 0	1	200	2	20		20
276	52		53	30	27	32			8	80		11			15			15			89		7.0	63	63	20	89	84	200	•	10	89	12	25	12				28	44		47		7.6
0Y-TSK	I IN YOUR PRESENT JO	TO SERIES OR PARALLEL RESONANI CINCUI	YOU WORK WITH, USE, OR REFER TO THE CONS	231 02-03 DO YOU WORK WITH, USE, OR REFER	D 232 D3-04 DO YOU WORK WITH, USE, OR REFER TO TRANSIENT	D 233 D2-05 DO YOU USE OR REFER TO THE GENERAL PULE THAT A	CAPACITOR IS FULLY	TIME CONSTANTS (TC)	07-06 00 YOU USE OR REFER TO UNIVERSAL	235 D2-07 DO YOU USE EQUATIONS OR FORMULAS TO DETER	CIRCUIT CUPRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC	D 236 D2-98 D0 YOU USE EQUATIONS OR FORMULAS TO DETERMINE THE	TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO	PEACH SPECIFIC VALUES FOR RC OR LR CIRCUITS	D 247 52-09 50 YOU USE FOUNTIONS OR FORMULAS TO DETERMINE	COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND	COMPONENT VOLTABES TO REACH SPECIFIC VALUES IN SPECIFIC	0 278 02-15 00 YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT	IN LA CIRCUITS REACHES ITS MINIMUM VALUE (OR 25RO)	S	00	PRESENT JOR	240 03-07 00	241 03-03 DO YOU CLEAN FILTE	242 53-04 DO YOU	03-05 00 400	244 03-26 00 700	245 07-77 DO YOU	SAL CT-78 OF YOU SEROVE OR	Slava	247 5	248 63-13 00 YOU WORK LITH H	249 03-11 00 YOU WORK	250 67-12 00 YOU WORK LITH R	251 DT-13 DON'T DEMEMBED UNT	252 DI-14 DO YOU WORK WITH I -SECTION FILTER CONFIGURATIONAL	251 01-14 00 YOU WORK LITH T	254 07-16 00 VOIL 400K 41-10 D	DI-17 DON'T REMEMBER HH	164 DE-10 DO THE ET! TEDS YOU	CIRCUITS	D 257 D3-19 DO THE FILTERS YOU WORK WITH USE SEPIES-PARALLEL	1180113	U 258 US-20 UU THE TILIERS TOU NORN WITH USE SERIES RESONANT

GPSHIS PAGE 11

																								decreases and other tree outgoing little a garden commence				
		COUPLING													SOLDERING													
SPC 280	10	69	62	19	10	62	69	19		67	19	10	61	16	74	50	9 9	83	86	83	83	900		86	17	81	14	32
SPC 279	11	78	61	78	19	99	7.2	72		67	7.8	11	83	61	78	72	2 20	2 80	83	78	83	20 00	2 0	80	83	83	67	33
SPC 276	30	12 67	62	70	67	09	70	68		67	70	10	80	12	15	0 0	ο α ο	2 00	85	82	83	000	2 0	85	15	82	12	13
QY-TSK	D 259 D3-21 DON'T REMEMBER WHICH TYPE OF BASIC CIRCUIT D 260 D3-22 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC FILTERS	E 261 E1-01 DO YOU WORK WITH COUPLING DEVICES IN YOUR PRESENT JOB E 262 E1-02 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH RC	E 263 E1-03 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH THE TOPPING	E 264 E1-04 DO YOU IDENTIFY ON SCHEWATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED WITH TRANSFORMER COUPLING	E 265 E1-CS DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM RC COUPLING	E 266 E1-06 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	E 267 E1-97 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	E 268 E1-08 GO YOU WORK WITH DIRECTLY COUPLED CIRCUITS	CIRCUITS	E 270 E1-10 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED CIPCUITS	E1-11 DO YOU WORK WITH TRANSFORMER	E1-12 DON'T REMEMBER WHICH TYPE OF	۵.	E 274 E2-02 DO YOU SELECT TYPE OF SOLDER TO USE	£2-03 DO YOU	276 E2-04 DO YOU CLEAN CONNECTIONS UST	E 277 E2-05 DG YOU SIRID INSULATION FROM MIRES	279 E2-02 DO YOU BEND OR SHAPE WIRES OR	280 E2-RE DO YOU CUT WIRES	281 E2-09 DO YOU FILE OR SHAPE SOLDERI	282 E2-10 DO YOU TIN SOLDERING IRON TI	283 E2-11 DO YOU CLEAN SOLDERING IRON 11PS	E 284 E2-12 DO YOU CLEAN ELECTRICAL SURFACES USING EMASERS	286 F2-14 DO YOU	287 E2-15 DO YOU DESOLDER CONNECTIONS	W	E 289 E2-17 DO YOU CUT COMPONENT LEADS TO REMOVE COMPONENTS	The state of the s

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DY-1SK	291 E2-19 DO YOU MAKE HARDEIRE C	YOU MAKE PRINTED CIRCUIT BOAPD CONNECTIONS		E 294 E2-22 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE	E 295 E3-01 DO YOU MOPK WITH RELAYS ON YOUR PRESENT JOB	296 E3-02 DO YOU AGJUST RFLAYS	E3-03 00 YOU	LAYS	299 L3-05 DO YOU REMOVE OR PEPLACE COMPLETE	300 E3-06 DO YOU REMOVE OF PEPLA	301 E3-07 DO YOU TROUBLESHOOT RELA	302 E3-D6 DO YOU STRAIGHTEN RELAY	EZ-09 DO YOU PERFORM TASKS ON RELAY	304 E3-10 00 YOU PERFORM TASKS ON RELAY	ברב בייו סט יסוו הבשבטאים ישבאי פא אבורפי	ET-12 DO YOU PERFORM TASAS ON RELAY	ES-13 DO YOU PLOFORM TASKS ON KELAT	E 206 E3-14 DO YOU USE ON REPER TO SINGLE POLE, SINGLE THROW	VOIL ILSE OR REFER TO	(SPST). NORMALLY CLOSED (NC)		FOF	E 311 E3-17 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW	TE DO YOU USE OR REFER	SYMBOLS FOR PELAYS	E 313 E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY	F 314 F1-01 IN YOUR PRESENT JOB. DO YOU PERFORM ANY TASKS DEALING	WITH MICROPHONES	F1-02 DO YOU	316 F1-03 DO YOU	FI-C4 DO YOU OPERATE MICROPHONES	TROUBLESHOOT AS TAR AS CHECKING	PARTS OR MICROPHONES	319 F	F 320 F1-07 09 YOU REMOVE OF REPLACE COMPLETE MICROPHONES	321 F1-De DO YOU REMOVE OF REPLACE	322 F1-09 DO YOU PEPFORM TASKS ON	F1-13 DO YOU PERFORM TASKS ON	374 F1-11 DO YOU PERFORM TASKS ON	S F1-12 DO YOU PEPFORM TASKS ON	F 326 FI-13 DO YOU PERFORM TASKS ON VELOCITY RIBBON MICROPHONES

PCT MBRS RESPONDING "YES" BY SELECTED GRPS

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	7 9/7	219	280	
IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS CEALING	52	22	92	
WITH SPEAKERS	•	:	•	
DO YOU CLEAN CONTACTO	1 1	11	1.1	COFAKERS
TELLO DO VOIL DEFENTE COFFEE DA	2.4	22	3.	Structure
TO VOTE TRAINING AND AN CHECKING DIDE	22	22	21	
CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT	:	:	:	
F2-06 DO YOU TROUBLESHOOT DOWN TO SPEAKER PARTS		9	10	
333 F2-07 DO YOU PEMOVE OR REPLACE COMPLETE SPEAKERS	23	22	54	
F2-08 DO YOU REMOVE OR REPLACE SPEAKER PARTS	•	9	2	
DO YOU PERFORM ANY TASKS ON SPEAKER	2	0	2	
F2-10 DO YOU PERFORM ANY TASKS ON	2	0	2	
337 F2-11 DO YOU PERFORM ANY TASKS ON SPEAKER FIELD COILS	2	0	2	
FZ-12 DO YOU PERFORM ANY TASKS ON	2	0	2	
NO	u n	11	•	
F7-14 DO YOU PERFORM ANY TASKS ON SPEAKER	2	0	2	
F2-15 DO YOU PERFORM ANY TASKS ON SPEAKER	2	0	2	
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O YOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR	82	83	81	
ADJUSTMENTS.				OSCILLOSCOPES
USF OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC	90	78	8.1	
F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FRECUENCY	89	83	06	
F3-06 DO YOU USE OSCILLOSCOPES TO MEASURE TIME	8 1	68	86	
F3-57 DO YOU USE OSCILLOSCOPES TO OBSERVE LISAJOUS PATTERNS	32	17	38	
ES TO OBSERVE SIGNALS WHILE	82	83	86	
UTILIZING ATTENUATOR PROBES		,		
TO MAKE FREQUENCY OR TIME	80	83	16	
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TO MEASURE OF OBSERVE	62	2	98	
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VOLTAGE	8 3	83	83	
DIODES IN YOUR PRESENT	83	89	81	
DO YOU INSPECT DIODES	82	83	81	SEMICONDICTOR DIODES
61-03 DO YOU PENOVE OF REPLACE DIDDES	82	83	81	
61-04 BO YOU CHECK DIODES USING AN INSTRUMENT	82	83	81	
61-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR MORN WITH	7	0	1	
DIODES				
359 61-06 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, 1	12	17	10	
RESISTANCE	-			

	DY-15K	Z.K.	276	279 279	2 8 D	
9	361 G1-08 DO YGU USE OR REFER TO THE	USE OR REFER TO THE SENERAL PULE THAT	69	72	29	
9	362 G1-09 DO LOCATERY SENT OTHER ELECTRONIC COMPONENT THE DESCRIPTION AND FAMORE	CONDUCTOR DIODE	75	83	r,	
9	363 GI-10 DO YOU PEFE TO OR DO YOU DETERMINE THE	DO YOU DETERMINE THE GENERAL	•	11	s	
3	YOU USE	OR REFER TO MEASUREMENTS OF FORMARD BIAS	9	6.7	* 9	
0	61-12 DO YOU USE OR	TO DIEDE COLUR CUDING	4.7	99	5 4	
	366 GI-13 DO YOU USE OR REFER FLECTRON IN ORBIT AROUND	TO CENTRIFUGAL FORCE OF AN	-	•	10	
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U	MOVING IN ORBIT	TO POTENTIAL ENERGY OF AN	-	0	10	
	FLECTRON MOVING IN				!	
9	371 G1-18 DO YOU USE OR REFER TO RESISTANCE	TO MEASUREMENTS OF PEVERSE BIAS	62	67	09	
5	372 61-19 00 YOU USE OR REFER TO	TO NUMBER OF ELECTRONS IN A	2	0	,	
9	PARTICULAR SHELL OF ORBIT 373 G1-20 DO YOU USE OR REFER TO	TO PERMISSIBLE ENFRGY LEVELS OF	5	0	,	
	AN OPBITING ELEC	A N S O S T S O O S	•	•		
9		CABILDEN ENERGY LEVELS OF		•	2.	
9	375 61-22 DO YOU USE OR REFER TO	TO VALENCE ELECTRONS (THOSE IN	1	0	10	
5	376 61-23 00 YOU USE OR REFER TO	TO ATCHIC NUMBER (TOTAL NUMBER OF	S	0	1	
9	377 61-24 DO YOU USE OR REFER	TO SYMBOLS ON THE DIODE WHICH	75	83	1.1	
S	378 G1-25 DO YOU NEED TO KNOW	INDICATE THE CATHODE END 61-25 DO YOU NEED TO KNOW WHICH MATERIALS APE USED IN THE	28	33	26	
		UCH AS SERMANIUM CR SILICON		:	. :	
٥	379 G1-26 NO YOU NEED TO KNOW THAT SE TEMPERATURE COEFFICIENTS OF PESS TAXABLE PROFESSION OF STREET	61-26 NO YOU NEED TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE TEMPERATURE COEFFICIENTS OF RESISTANCE (AS TEMPERATURE	53	65	31	
w	180 GI-27 DO YOU USE OR REFER TO BY JUNCTION DIODE	TO PA CUNCTION DIODE	11	17	1.1	
	CHARACTERISTIC CURVES (PERHAPS	ERHAPS YOU DO THIS TO IDENTIFY				
	291 C1-29 DO NOT DETECTION OF THE ANDIAN	THE OF OPERATING REGIONS	1.7	10	,	
9	FOP ARD BIASED OF PEVE	THE THE PROJUNCTION DIGUES ARE	ò	0	20	
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9	382 G1-29 DO YOU USE OR REFER TO VALENCE MATERIALS	TO VALENCE PAND IN SEMICONDUCTOR	•	0	s	

PCT MBRS RESPONDING "YES" BY SELECTED GRPS

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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DY-15K	61-30 DO YOU USE OR REFER	61-31 GO YOU USE OR REFER	GI-32 DO YOU USE OR REFER	SEMICONDUCTOR MATERIALS	GI-33 DO YOU USE OR REFER	G1-34 DO YOU USE OR REFER	61-35 DO YOU USE OR REFER	61-36 DO YOU USE OR REFER	SEMICONDUCTORS	51-37 CO YOU USE OR REFER	61-TH DO YOU USE OR REFER	61-39 DO YOU USE OR REFER	SEMICONDUCTORS	SEMICONDUCTORS	9	SEMICONDUCTORS	61-42 DO YOU USE OR REFER	5		(3	RESISTANCE RATTO	SENTENDETONS ON REFER TO	(3	CHESENT DIONE PATINGS	YOU USE OR REFER	TINGS	GI-45 DO YOU USE OR REFER T	9	0100	65-01 DO YOU	62-02 DO VOU	62-03 00 400	62-04 DO YOU		GOOD ACTURE RESISTANCE MEASUREMENTS
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COLLECTOR VOLTAGE WHICH PESULTS FROM A CHANGE IN BASE CURRENT COLLECTOR VOLTAGE WHICH PESULTS FROM A CHANGE IN BASE CURRENT COLLECTOR VOLTAGE WHICH PESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT BASE CURRENT BASE CURRENT BASE CURRENT BASE CURRENT BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL G3-13 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL G3-14 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN G3-14 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE CHARACTERISTIC CURVE) G3-14 DO YOU USE OR REFER TO THE OPFRATTOR POINT FOR A CIRCULA AND YOU USE OR REFER TO THE OPFRATTOR POINT FOR A CIRCULAR TRANSISTOR CHARACTERISTIC CURVE) G3-15 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON EMITTER CONFIGURATION G3-16 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON EMITTER CONFIGURATION G3-19 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON EMITTER CONFIGURATION G3-20 DO YOU MEASURE POWER GAIN USED IN THE COMMON EMITTER CONFIGURATION G3-20 DO YOU CALCULAR THE YOUTAGE GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE COLLECTOR CHANGE IN BASE CURRENT FAILT HE CURRENT GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CURRENT INTO THE CHANGE IN COLLECTOR	IN 37 10 10 10 10 10 10 10 10 10 10 10 10 10	33 6 6 6 6 6 8 3 3 6 6 6 6 6 6 6 8 3 3 6 6 6 6	38 10 12 14 50 50
G3-11 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECORR VOLTAGE WHICH RESULTS FROM A SPECIFIC CHANGE IN G3-12 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN G3-12 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN G3-12 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN G3-13 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN G3-14 DO YOU USE OR REFER TO THOO OF ANALYSIS IN YOUR CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A CQUIESSENT FOUNT) FOR A TRANSISTOR G3-15 DO YOU WEASURE CURRENT SAIN USED IN THE COMMON EMITTER CONFIGURATION G3-19 DO YOU MEASURE CURRENT SAIN USED IN THE COMMON EMITTER CONFIGURATION G3-20 DO YOU WEASURE CURRENT SAIN USED IN THE COMMON EMITTER CONFIGURATION G3-20 DO YOU WEASURE THE YOUTAGE GAIN FOR SPECIFIC TRAN- SISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN GASE—EMITTER YOUTAGE GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CURRENT FHE CURRENT GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CURRENT INTO THE CHANGE IN COLLECTOR	2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10 24 5 10 12 S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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3-14 DD YOU USE THE LOAD-LINE METHOD OF ANALYSIS IN Y CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A 3-15 DO YOU USE OR REFER TO THE OPFRATTHE POINT OF QUIESCENT POINT) FOR A TRANSISTOR 3-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FO PASTICLE AR TRANSISTOR 3-17 DO YOU MEASURE VOLTAGE GAIN USED IN THE COMMON EMITTER CONFIGURATION 3-19 DO YOU MEASURE POWER GAIN USED IN THE COMMON EMITTER CONFIGURATION 5-19 DO YOU MEASURE POWER GAIN USED IN THE COMMON EMITTER CONFIGURATION 5-20 DO YOU CALCULATE THE VOLTAGE GAIN FOR SPECIFIC TO SISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE TO DETERMINE THE VOLTAGE GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CULATER HOUSE OF THE CHANGE IN COLLECTOR		36 56 50 50 6	5 5 5
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G3-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR PARTICULAR TRANSISTOR G3-17 DO YOU MEASURE VOLTAGE GAIN USED IN THE COMMON ENTITER CONFIGURATION G3-18 DO YOU MEASURE POWEN GAIN USED IN THE COMMON EMITTER CONFIGURATION G3-19 DO YOU MEASURE POWEN GAIN USED IN THE COMMON EMITTER CONFIGURATION G3-20 DO YOU CACCULATE THE VOLTAGE GAIN FOR SPECIFIC TR SISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHAINE THE CONFIGURATION TO THE CHANGE THE BASE COLLE YOU TAGE TO DETERMINE THE CONFIGURATION THE CHANGE THE BASE COLLE TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CURRENT GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CURRENT IN OTHE CHANGE IN COLLECTOR		26 Sé Sé Sé	\$ 09
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-21 DO YOU CALCULATE THE CURRENT GAIN FOR SPECIFIC RANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THANGE IN BASE CURRENT INTO THE CHANGE IN COLLECTOR	08		
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63-22 DO YOU CALCULATE THE POWER GAIN FOR A SPECIFIC	-	9	1
TRANSISION USING A FORMULA THAT IS, DO YOU MULTIPLY THE			
POWER GAIN			
63-23 DO YOU NEED TO KNOW THAT MORE COLLECTOR CURRENT IS	17	9	2.1
GENERATED WITH LESS COLLECTOR VOLIAGE AS TEMPERATURE			
INCREASES (THIS AFFECTS THE STATE OPERATING POINT LUI	•		
63-24 DO YOU COMPUTE THE STATIC OPERATING POINT EQUIOF	3	0	5
AGRAMS AND	10 35	3 3	31
THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH EMITTER (SWAMPING) RESISTOR STABILIZATION			
63-26 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO	35	20	59

DY-ISK TREULIZATION TABILIZATION TABILIZATION TABILIZATION TREULIZATION TREULIZA	43 50 40	19 8	 0	25 17 29		1R 28 14	45 61 38	**	02	42 39 43		52 61 48	,	73 67	37 44 33	45 61	04 95 54		35 44 31	45 61 38		04 95 54		27 39 21	?	35 56 26	33 50 26		28 39 24	SPC SPC SPC 276 279 280
	474 63-47 30 YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY CIPCUITS 475 63-48 DO YOU TROUBLESHOOT OR REPAIR COMPCUND-CONNECTED	63-46 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS		9	CAUSED BY CHANGING EMITTER RESISTANCE OR AMPLIFIERS IN THE COMMON COLLECTOR	63-43 DO YOU WEED TO KNOW THE DEGENERATIVE EFFECTS ON		CAUSES OF PHASE DISTORTION	CIRCUITS GT-41 DO YOU TEQUELESHOOT TRANSISTOR CIRCUITS TO	63-40 00	CIRCUITS		CIPCUITS	WHICH PERFORM DOUBLE DIODE STABILIZATION			63-34 CO YOU TROUBLESHOOT	WHICH PERFORM THERMISTOR STABILIZATION	G3-73 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE	63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENT	WHICH PERFORM EMITTER (SWAMPING) RESISTOR STABILIZATIO	DOUGLE DIONE STABILIZATION 63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENT	THE ACTUAL CIRCUITY THE COMPONENTS ASSOCIATED WITH	REVERSE BLAS DIODE STABILIZATION 63-30 DO YOU TOENTIFY ON SCHEMATIC DIAGRAMS AND RELATE	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH	FORWARD BIAS DIODE STABILIZATION	THE ACTUAL CIRCUITY ON SCHEMATIC DIAGRAMS AND RELATE	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED MITH THERMISTOR STABILIZATION	63-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE	DY-15K
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PCT MBRS RESPONDING "YES" BY SELECTED GRPS

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TASK GROUP SUMMARY PEPCENT MEMBERS PERFORMING

			SOU TO-STATE	SPECIAL PURPOSE	DEVICES.	חבווהרם					POWER SUPPLIES																												
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679		46	61	67	78	100	100	89	83	83	83	83	83	83	m	7.8	83		8	8	80	72	83	88	83	8 1	2 0	8	78	19	19	72		26	20	3	22	:	=
63		88	47	20	62	87	8 5	82	80	78	80	11	15	11	7.5	72	73		18	62	80	67	15	11	11	89	36	12	12	63	63	63		55	5.5		11		'n
DY-TSK 476 63-49 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED	AMPLIFIERS	DO YOU USE OR REFER TO VARACTO	DO YOU USE OR REFER TO TUNNEL	DO YOU USE OR REFER TO FIELD	YOU USE OR REFER TO UNIJUN	HI-DS DO YOU USE OR REFER IC ZENER DIODES	FER TO INTEG	H2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH POWER SUPPLIES	H2-D2 DO YOU INSPECT POWER SUPPLIES		YOU ALIGN OR ADJUST POWER	DO YOU TROUBLESHOOT TO POWER	DO YOU TROUBLESHOOT TO POWER	DO YOU REMOVE OR REPLACE COMPLETE POWE	HZ-08 DO YOU REMOVE OR REPLACE POWER SUPPLY CAMPONENTS	DO YOU WORK WITH HALF-WAVE RECTIFIERS	H2-10 DO YOU WORK WITH FULL-WAVE PECTIFIERS OTHER THAN	GE RECTIFIERS	DO YOU WORK WITH BRIDGE RECTI	DO YOU WORK WITH THREE-PHASE	3 DO YOU USE OR REFER TO INPUT	4 DO YOU USE OR REFER TO INPUT	DO YOU USE OR REFER TO	DO YOU USE OR REFER TO AVERAGE	DO YOU USE OR REFER TO RIPPLE	DO YOU USE OR REFER TO	12-20 DO YOU USE ON METER TO PEAR MEMERSE LINGENSE FOLIAGE	DO YOU USE OR REFER TO FFFECT	DO YOU WORK AITH CIRCUITS WH	H2-23 DO YOU WORK WITH CIPCUITS WHICH EMPLOY INDUCTIVE	H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE	H2-25 GO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	TYPE FILTERS	H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE	HILIERS H2-27 NO YOU WORK WITH CIRCUITS WHICH EMPLGY RC PI-TYPE		H2-28 DO YOU WORK BITH CIRCUITS WHICH EMPLOY DON'T	PEMEMBER WHICH TYPE OF FILTER	FILTER WITH A DIFFERENT TYPE FILTER

OSCILLATORS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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SPC	276	89	6.9	65	6.7	89	89	6.5	55	9	89	6 7	9	20	18	53	25	55	62		70		13		33	12	3 2	27	20	382		58	55	55	25	25		53	25		53	38	
	3r-15K	513 H3-02	H3-03 DO YOU	515 H3-04 DO YOU	516 H3-05 D0 YOU	517 H3-06 DO YOU	518 H3-07 DO YOU	519 43-08 DO YOU USE OR REFER TO	520 H3-09 DO YOU USE OR REFER TO	521 H3-1U DO YOU USE OR REFER TO AMPLITUDE	522 H3-11 DO YOU USE OR REFER TO	523 H3-12 DO YOU USE OR REFER TO	524 H3-13 DO YOU USE OR REFER TO	525 H3-14 DO YOU USE OR REFER TO	526 H3-15 DO YOU USE OR REFER TO	H3-16 DO YOU USE OR REFER TO	526 H3-11 BO YOU USE 0	H 529 H3-18 DO YOU WORK WITH OSCILLATORS WHICH USE LC TANK		500	H 571 H3-20 DG YGU WGPM WITH OSCILLATORS WHICH USE CHYSTALS AS	F00	H 532 H3-21 DO YOU WOPK WITH OSCILLATORS WHICH USE DON'T REMEMBER	BHICH TYPE OF FOD	H 533 H3-22 DO YOU WORK WITH SEPIES HARTLEY SINUSOIDAL	7 77 7	11-24 00 VOU 409X ATTH	HILT MOUN HOLD 32-14 915	12 12 12 10 VO 10 10 10 10 10 10 10 10 10 10 10 10 10	אונה אסטה הוטא טל בכיצא	OSCILLATORS	I 539 II-OL DO YOU WORK WITH MULTIVIBRATORS IN YOUR PRESENT JOB	11-02 DO YOU INSPECT WAVE GENERATING OR SHAPING	541 11-03 30 YGU		543 1	240	CIRCUIT COMPONENTS		SHAPING CIRCUITS	I 546 II-08 DO YOU REMOVE OF REPLACE MAVE GENERATING OR SHAPING	I S47 II-29 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN LC TANK	

PCT MBRS PESPONDING 'YES' BY SELECTED GRPS
TASK GROUP SUMMARY
PEPCENT MEMBERS PERFORMING

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SPC SPC 279 280		72 3	61 2	22 1	78			11	-	89 5	78 4			-	72 4		67 4	17 1	68	8	72 3		1		22 2			61 4		9	69 7					72 6
SPC SF		1 8 1	38 6	18	53					19	57			-			50		78	67			-		22			-	32	S	11		-		17	
0Y-TSK	0Y-15K	548 II-10 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN RC	549 II-II DO YOU WORN WITH MULTIVIBRATORS WHICH CONTAIN	SSG IL-12 DG YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN DON'T	REMEMBER WHICH TYPE OF FOD	11-14 DO YOU WORK WITH MONOSTABLE ML	11-15 00 YOU WORK WITH	11-16 DO YOU WOPK WITH DON'T REMEMBE	MULTIVIBRATORS	555 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS IN YOUR	12-02 DO YOU WORK WITH SERIES DIODE	12-03 DO YOU NORK WITH SHUNT DIODE LI	12-64 DO YOU WOPK WITH LIMITERS WITH	12-05 DO YOU WORK WITH ZENER DIODE L	DO YOU HORK WITH TRANSISTOR LIMITERS	HOW I LOUD HITE WORK NOT DO 10-21	WITH DIODE CLAMPIN	12-1C DO YOU WORK MITH DON'T KNOW WE	SES 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT WHICH	CONTAINS ELECTRON TUBES	13-03 DO YOU USE TUBE TESTERS TO CHECK EL	13-04 DO YOU USE MULTIMETERS TO CHE	13-05 DO YOU USE	DO YOU USE SUBSTITU	13-06 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE RATING	17-09 DO YOU USE OR REFER TO PEAK CURRENT RATING	13-10 DO YOU USE OR REFER	575 13-11 DO YOU USE OR REFER TO PLATE DISSIPATION RATING	13-13 DO YOU USE OR REFER TO DC PLA	13-14 DO YOU COMPUTE ACTUAL VALUES OF	STO IT-15 DO YOU USE OR REFER TO PLATE VOLTAGE	13-16 DO YOU USE OR REFER TO PLATE	13-17 DO YOU USE OR REFER TO GRID VO	13-18 DO YOU USE OR REFER TO	13-19 DO YOU USE OR REFER TO CATHODE	584 I3-20 DO YOU USE OR REFER TO CATHODE CURRENT

																										ELECTRON TUBE AMPLIFIERS AND CIRCUITS
SPC 260	s	*	1	~	2	2	10	•	,	7	12	12	57	26	:	56	60	2	2		9 1	12		38	29	11
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SPC 276	1	1.1	8	•	•	3	13	9	8	v,	•	•	30	3.7		0 4	57	2	2	•	70	10			1	88
DY-TSK	SR6 11-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE	587 13-23 DO YOU USE OR REFER TO MULTIGRID (TETRODE, PENTODE,	588 13-24 DO YOU USE OR REFER TO ELECTRON TUBE TRANSCONDUCTANCE	589 13-25 DO YOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE	590 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER	591 13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE	592 11-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE	593 13-29 DO WOU USE OR REFER TO CHARACTERISTIC CURVES IN YOUR	100	SOS IT-T) ON YOU USE CHARACTERISTIC CURVES TO SELECT PLATE	CUPAENT FOR A SPECIFIED RIAS 596 11-12 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	REGOLDED FOR CUTOFF 597 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	598 13-34 DO YOU USF OR REFER TO ELECTRON TUBE AMPLIFIER GAIN 599 13-35 DO YOU USE OR REFER TO FLECTRON TUBE AMPLIFIER	EFFICIENCY FFF TO YOUR USE TEST TUBE CHECKEDS TO DETERMINE FLECTRON		601 13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTION TUBE	602 17-36 DO YOU USE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE	603 17-39 DO YOU USE CHARACTERISTIC CURVES TO DETERMINE	664 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH		605 13-41 DO YOU USE OR REFER TO TUBE SOCKET NOTATION	13-43 00 YOU USE	CRECTION THE VON LOOM ON	6.08 IT-44 DO YOU USE ON PARENTS TO TUBE SUBSTITUTION MATERIAL	DO YOU WORK	IN YOUR PRESENT JOB 610 JI-CZ DO YOU REFERINE THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIPCUITS

PCT MBRS RESPONDING "YES" BY SELECTED GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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DY-15M	276	279 2	280	
	1	1		
DO YOU TROUBLESHOOT OR REPAIR	88	9.5	54	
JI-04 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	52	19	45	
DO YOU TROUBLESHOOT OR REPATA COMPOUND-C	*	*	11	
FTERS				
11-16 DO VOIL TROUBLECHOOT OF DEPARTS CASCADE COMMECTED	34	**		
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	63		,	
12-01 DO YOU WORK BITH GAS TURES (HOT CATHODE OF COLD	9	68	87	
CATHODE				
12-02 DO YOU WORK MITH CATHODE-RAY TURES	20	80	11	SPECTAL DIDDICE FLECTRON THRES
USE OR REFER TO THE CH	20	50	1	פרנוער ופעופה לרכנועם יפנים
12-64 DO YOU TROUGLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM	33	83	12	
ARE USED				
	23	95	10	
J2-06 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH	38	83	19	
J2-07 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF	22	**	12	
ELECTRON GUNS OF CATHODE-RAY TUBES (CRT)				
INCIPLES OF	25	95	12	
ELECTROMAGNETIC DEFLECTION SYSTEMS OF CATHOLE-RAY TUBES	Carried Control of		-	
(CR1)				
TO THE PR	23	20	12	
ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES				
DO YOU USE OR REFER TO PHOSPH	37	67	54	
DO YOU USE OR REFER TO	20	99	2	
DO YOU USE OR REFER TO ELECTR	10		10	
DO YOU USE OR REFER TO PERSIS	28	20	19	
DO YOU USE OR REFER	17	17	11	
JZ-15 DO YOU USE OR REFER TO FLUORESCENCE	22	28	19	
DO YOU USE OR REFER TO	32	61	19	
J3-DI DO YOU WORK ON TRANSMIT OR RECEIVE SYSTEMS IN YOUR	73	68	19	
PRESENT JOB				
13-02 DO YOU PEPFORM TASKS ON FREQUENCY CONVERTERS	57	7.8	84	HETERODYNING, MODULATION, AND
DO YOU PERFORM TASKS ON FREDU	19		09	DEMODIII ATTON
DO YOU	53		80 1	
OUR WORK WITH TRANSMIT OR RECEIVE SYSTEMS				
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ON YOU PERFORM TACKS ON MODILI ATED	4.2	1	20	The second of th
TOTAL NO SHEET ON THE TOTAL	35	1		
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00 400	50		10	
DO TOU CLEAN AM INANSMIT OR RECEIVE SYSTEMS	20		01	
AI-04 DO TOU ALIGN OR ADJUST AM TRANSMIT OR RECEIVE SYSTEMS	20	***	2	

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0Y-15K	TROUPLESHOOT TO AM TRANSMIT OR	COMPONENTS	644 KI-07 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE SYSTEMS	645 KI-DB DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE	COMPONENTS 646 KI-09 DO YOU PERFORM TASKS ON RF OSCILLATORS	MI-10 DO YOU PEPFORM TASKS ON	KI-II DO YOU PEPFORM TASKS ON	K1-12 DO YOU PERFORM TASKS ON	KI-13 DO YOU PERFORM TASKS ON LOCAL	KI-14 DO YOU PEPFORM TASKS ON	KI-15 DO YOU PERFORM TASKS ON	655 KI-16 DO YOU PERFORM (ASK) ON DON'T REMEMBER WHICH AR STAGE	THANSMITTERS	655 MI-16 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN	SCHUTTER TO WATER THE TO SEE THE THINK OF STATE TO	KI-ZU DO YOU USE OR REFER TO	KI-ZI DO YOU USE OR REFER TO	KI-22 DO YOU USE OR REFER TO	KI-23 DO YOU USE OR REFER TO	K1-24	DO YOU USE OR REFER TO	IMAGE REJECTI	TRANSMITTED SCHEMATIC DIAGRAMS	- 4	VCU .	YOUR PRESENT JOB	Ac-52 00 100 1	ALCO ASSESS DO YOU CLEAN THE TRANSMIT ON MECELVE SYSTEMS	K2-C5 DO YOU TROUBLESHOOT TO FH TRANSMIT	SYSTEMS 671 K2-00 YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE COMPONENTS	672 K2-77 DO YOU PEMOVE OF REPLACE FM TRANSMIT OR RECEIVE	673 K2-78 50 YOU REMOVE OR REPLACE FM TRANSMIT OF RECEIVE	5.2.20

PCT MBRS RESPONDING "YES" BY SELECTED GRPS...

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276	27	:	77	22	23	22	18	23		23	3		57	5.7	5.7	5.7	55	47	37	17	;	04	58	37		37	37		53	4.7	4.7		4.7	2.17	2	57	57	57
DY-15K	K 676 K2-11 DO YOU PERFORM TASKS ON DRIVERS (INTERMEDIATE	AMPLIFIE 95)	KZ-12 DO YOU BERFORM TASKS ON	STREETS DO TOU PERFORM TASKS ON CO.	אים באבשו המטונים מו	DEDECTOR TASKS ON 1TH	682 42-17 DO YOU PERFORM TASKS ON F	K2-18 DO YOU TRACE SIGNALS OR CURRENT PA	SCHEMATIC DIAGRAMS OF FM TRANS	K 684 KZ-19 DO YOU TRACE SIGNALS OR CURRENT PATHS IHROUGH	A ARC MA-DI DO VOII CONVERT DECIMENT TRICE TO MUMBER TO DETAIL	(BASE 8) NUMBERS	K 686 K3-02 DC YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2)	687 K	K3-04 DO YOU CONVERT OCTAL NUMBERS	YOU CONVERT BINARY NUMBERS TO	K3-06 DO YOU CONVERT PINARY NUME	K 691 K3-G7 DO YGU ADO BINARY NUMBERS TO GET A SUM	692 K3-08 DO YOU	K 401 MILES DO VOIL CHETDACT STANDY NIMBERS HOTAE THE DIDECT	STATE OF THE METHOD	* 694 K3-1G DO YOU ADD OCTAL NUMBERS TO GET A SUM	695 LI-DI IN YOUR PRESENT JOB, DO Y	PELATING TO LOGIC FUNCTIONS 1. 494. 11-72 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS	OR CATES	L 697 L1-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS	L 698 L1-54 30 YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC	SYMBOLS WITH STATE INDICATORS	L 699 LI-US DO TOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LUBILL			SYMBOLS OR GATES	10 TR		וס ואסום ושפרכז נמע בערר חזד אר	LI-10 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR	705 L1-11 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR	1 704 11-12 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NAND OR NOR

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DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE AIRS. ITM YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS. ITM TOUR PRESENT JOB, DO YOU PERFORM ANY TASKS. ITM TO BOOLEAN EQUATIONS, LOGIC DIAGRANS, OR LOGIC DISTORCE TO BOOLE DO YOU DRAW LOGIC SYMBOLS FOR CURRENT MODE LOGIC CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC CONTOURS. ITM TOUR DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN BOOLEAN COND DRAWLOOD OR YOU DE STANDARD TO YOU USE OR REFER TO LOGIC CIRCUITS BY USING BOOLEAN CONTOUR TABLES FOR CURDENT MODE TRANSISTOR REFER TO LOGIC DIAGRAMS CONSISTING OF THAN CHE TABLES SOR REFER TO LOGIC DIAGRAMS CONSISTING OF THAN CHE TABLES SOR REFER TO LOGIC DIAGRAMS CONSISTING OF THAN CHE TABLES SOR REFER TO LOGIC DIAGRAMS CONSISTING OF YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF YOU WORK WITH ASTABLE (FREE RUNNING) INTERNANCE GATE DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR CONTOUR WORK WITH MONOSTABLE (INF-FLOP TRUTH TABLES ON YOU WORK WITH MONOSTABLE (ONE-SHOT) INTERNANCES OR REFER TO FLIP-FLOP TRUTH TABLES DO YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES DO YOU USE OR REFER TO CHEPENTING FLIP-FLOP CONTOUR CO	18 2 2 3 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	\$ 00
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PCT MBRS RESPONDING "YES" BY SELECTED GRPS

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0Y-TSK	L 733 L3-01 DO YOU WORK WITH DIGITAL COUNTERS IN YOUR PRESENT JOB	L3-02 DO YOU USE OR REFER TO UP	L3-03 DO YOU USE OR REFER TO	L 736 L3-04 DO YOU USE OR REFER TO SERIAL COUNTERS	L 737 L3-05 DO YOU USE OR REFER TO PARALLEL COUNTERS	REFER TO	DO YOU USE OR REFER TO	YOU USE OR REFER TO	17-09 30 YOU USE OR REFER TO	13-10 00 YOU USE OR REFER TO	LE-11 DO YOU TRACE DATA FLOW	HAVING COMPLEME	L 744 L3-12 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	FLOPS	L 745 LT-13 DO YOU TRACE DATA FLOW THROUGH LOGIC MIAGRAMS OF	DECADE COUNTERS	L 140 LS-14 UD VOO TRACE CATA FLOW INVOICE LUGIC DIAGRANS OF		SERIAL UP-COUNTERS FEEDING A PARALLEL STOKAGE REGIS	L 748 L3-16 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	SHIFT PLGISTERS	L 749 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	1 25G 13-19 DO VOII COMPILE THE RINADY COUNT AFTER SPECIFIC INDUIT	PULSES FOR UP-COUNTERS HAVING C	L 751 L3-19 DO YOU COMPUTE THE RINARY COUNT AFTER SPECIFIC INPUT	ING FLIP-FLODS	L 752 L3-20 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT	PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE	L 753 L3-21 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT	PULSES FOR OTHER TYPES OF COUN	L 754 L3-22 BO YOU CONSTRUCT TRUTH TABLES FROM LOSIC UIAGRAMS OF	RMINE	COUNTERS FOR SPECIFIC INPUT PULSES	IN COUNT DETECT CIRCUITS TO INDICATE A REQUIRED	757 #	MI-DS DO YOU WORK WITH	FEEDBACK	M 760 MI-04 DO YOU WORK WITH PULSED OSCILLATORS WITHOUT PEGENERATIVE FEDBACK

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DY-15K	MI-DS DO YOU WORK MITH BLOCKING OF	762 41-06 DO YOU USE OR REFER TO PISE	MI-OT DO YOU USE OR REFER TO	M 766 MI-US UD TOU USE OR REFER TO SELEPTINE	MAVEFORMS	M 766 MI-1C DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAUTOOTH	MAVEFORMS	M 767 MI-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAUTOOTH	M 768 MI-12 DO YOU USE OR REFER TO SATE LENGTH OF SAMTOOTH	MAVEFORMS	769 MZ-DI DO YOU USE SIGNAL GENERATORS IN YOUR PRESENT	M 770 M2-32 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL	M 771 M2-03 DO YOU PERFORM PERIODIC MAINIFNANCE SUCH AS			WHILE USING SIGNAL GENERATORS		COMPONENT WHILE USING SIGNAL CEN	M2-06 DO YOU USE AUDIO SINE-MAVE GENERATORS	H 175 MC-01 to 100 USE ADULIO NON-SIAUSOLINE MANE GENERALIONS SOUTH	AS SOURCE WAVE, INTANGLE, POLSE,	TIO METERS DO TOO USE MY GENERALURS LE	MZ-09 DO YOU USE AT GENERALORS OF	2	M 270 M2 I IN YOUR PRESENT LOB - DO YOU PERECOM ANY TAKES GEALING	THE ALTERNATING CURPENT OF TIPE	GENERATORS	H 780 MI-UZ DO YOU INSPECT MOTORS	781	782 M3-04 DO YOU	MZ-35 DO YOU PEMOVE OR REPLACE	784 M3-06 DO YOU	785	CONNECTIONS OF MOTORS	ME-DE DO YOU TROUBLESHOOT DOWN TO	787 M3-09 DO YOU PERFORM ANY TASKS ON	788 M3-1C 00 YOU PERFORM ANY TASKS ON	M3-11 DO YOU PERFORM ANY TASKS ON	79C M3-12 DO YOU PEFFORM ANY TASKS ON	791 M3-13 DO YOU PERFORM ANY TASKS ON	-14 DO YOU PERFORM ANY TASKS ON	793 H3-15

PCT MBRS RESPONDING "YES" BY SELECTED GRPS

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M3-16 DO YOU DETERMINE OR HEASURE THE HAGNITUDE OF THE	1	25	0	
HE	10	22	8	
MECHANICAL FORCE OF TORQUE CREATED BY A MOTOR M3-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE	1	17	\$	
RECTION OF THE INDUCED VOLTAG	;	;	•	
MA-20 DO YOU WORK MILE STACHRONDON MOTORS	12	12	110	
DO YOU WORK WITH SPLIT-PHASE	23	36	17	
GO YOU WORK WITH SOME COMBINA	37	99	56	
3 DO YOU INSPECT GENERATORS	20	6.1	2	
DO YOU	11	20	2	
YOU OPERATE GENERATORS	17	#	2	
COMP	20	61	2	
REMOVE OR REPLACE GENER	12	33	2	
	20	6.1	2	
CONNECTIONS OF GENERATORS		1.6		
CORPONENT PARTS	71	23	,	
NI-DI DO YOU WORK WITH METERS IN YOUR PRESENT JOB	78	89	14	
NI-DZ DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	15	11	•	
			STREMENDED MONEMENTS	NEMENTS
810 NI-03 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	11	17	17 MEICK MU	VERENIS
NI-54 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	17	11	17	
DO YOU PEAD METER	7.5	89	69	
00 400	0,0	39	0,	
MITTO DO VOIL DEBO AMETERS	77	7.5	2 2	
200	20	20	200	
00	38	6.1	29	
111)		1		
ACTORS OF	33	4 8	1.6	
NZ-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE	32	83	10	TEACTOR AND MACHETTE
NZ-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE	30	83	7 AMPLIFIE	SATURABLE REACTORS AND PROPERTY AMPLIFIERS
N2-04 DO YOU ADJUST MAGNETIC AMPLIFIEMS OR SATURABLE REECTORS	27	67	10	
NZ-US DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE	30	83	7	
NZ-06 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR	32	83	10	
SATURABLE REACTORS	22	6.7	•	

DO YOU USE OR REFER TO PUSTERESIS CURVES OR LODPS E WINDING SATURABLE REACTOR OPENS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF E WINDING SATURABLE REACTORS HASS OR LOAD RESISTORS OF SINGLE WINDING SATURABLE DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT TO YOU USE OR REFER TO CCERCIVE FORCE IN SATURABLE OO YOU USE OR REFER TO CCERCIVE FORCE IN SATURABLE TO YOU USE OR REFER TO PESITORAL MAGNETISM IN ARRE REACTORS OO YOU USE OR REFER TO PESITORAL MAGNETISM IN ARRE REACTORS OO YOU USE OR REFER TO PESITORAL MAGNETISM IN TO YOU USE OR REFER TO PUSE WIDHIN CRITICAL TO TO YOU USE OR REFER TO PUSE WIDHIN CRITICAL TO YOU USE OR REFER TO PUSE WIDHIN CRITICAL TO YOU USE OR REFER TO PUSE WIDHIN CRITICAL TO YOU USE OR REFER TO THE ENTANTH IN SATURABLE TO YOU USE OR REFER TO THE ENTANTH CRITICAL TO YOU USE OR REFER TO THE CIRCUITS IN YOUR PRESENT TO YOU USE OR REFER TO THE CRITICAL TO YOU USE OR REFER TO THE SATURATION OF THE CONSTANT TO YOU USE ON REFER TO THE CRITICAL TO YOU USE ON REFER TO THE SATURATION OF THE CONSTANT OO YOU USEN WITH SOURCE WAVE GENERATORS TO YOU USEN WITH SOURCE STEAMSHIT OR RECEIVE SYSTEMS DO YOU USEN ON SANGELE STEAMSHIT OR RECEIVE SYSTEMS DO YOU USEN ON THE WITH SATURATION OF THE CRITICAL TO YOU USE ON THE WITH SATURATION OF THE CRITICAL TO YOU USEN ON THE WITH SATURATION OF THE CRITICAL TO YOU USEN ON THE WITH SATURATION OF THE CRITICAL TO YOU USE ON THE WITH SATURATION OF THE CRITICAL TO YOU USE ON THE WITH SATURATION OF THE CRITICAL TO YOU USE ON THE WITH SATURATION OF THE CRITICAL TO YOU USE ON THE WITH SATURATION OF THE CRITICAL TO YOU USE ON THE WITH					SINGLE SIDEBAND SYSTEMS		The second secon								אינים ביינים ביינים ביינים	STILLOGIO ONTONICONICO														
DO YOU USE OR REFER TO HYSTERESIS CURVES OR LODPS DO YOU USE OR REFER TO HYSTERESIS CURVES OR LODPS E WINDING SAURBALE REATIONS DO YOU UNTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT THIS OR LOAD RESISTORS OF SIMELE WINDING SATURABLE DO YOU UNTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT TO YOU USE OR REFER TO CERTIVE FORCE IN SATURABLE TO YOU USE OR REFER TO PELINE FROM SCHEMATIC TO YOU USE OR REFER TO PELINE REACTOR SCHEMATIC TO YOU USE OR REFER TO POINT OF SATURATION IN TABLE REACTORS TO YOU USE OR REFER TO POINT OF SATURATION IN TO YOU USE OR REFER TO DISFERITION FROM SCHEMATIC TO YOU USE OR REFER TO DISFERITION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO DISFERENTIATION OF THE (PRI) TO YOU USE OR REFER TO THE CLASSIFICATION OF THE (PRI) TO YOU USE OR REFER TO THE CLASSIFICATION OF THE (PRI) TO YOU USE OR REFER TO THE CLASSIFICATION OF THE (PRI) TO YOU USE OR REFER TO THE CLASSIFICATION OF THE (TO) TO YOU WORK WITH SECTION OF SYSTEMS DO YOU WORK WITH SO SYSTEMS TO SYSTEMS DO YOU WORK WITH SYSTEMS DO YOU WORK WITH SYSTEMS DO YOU WORK WITH SYSTEMS DO YOU W	0 0	0	0	0	00			55	17		36	55.0		200	62	80 7	62	,		8	2	2	2	,		2	,	0	260	SPC
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	O 851 01-07 DO YOU PEMOVE OR REPLACE SSB TRANSHIT OR RECEIVE SYSTEMS O 852 01-08 DO YOU REMOVE OF REPLACE SSB TRANSHIT OR PECEIVE	850 01-96 DO YOU TR	849 01-05 00 YOU TR SYSTEMS	848 01-04 DO YOU AL	846 61-52 DO YOU IN	PRESENT	845 01-01 00	843 N3-10 DO	8 42 N	CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT	841 N3-06 DO YOU USE OR REFER TO THE CLASSIFICATION OF	AND NETTER DO YOU DAY OR REFER TO	(PRF)	638 N3-04 DO YOU USE OR REFER TO DUESE	836 N3-03 DO YOU USE OR REFER TO PULSE	635 NT-02 DO YOU USE OR REFER TO	834 NZ-C1 DO YOU NO	833 N2-16 DO YOU US	SATURABLE REACTORS	REACTORS BIZ NZ-15 DO YOU USE OR REFER TO POINT OF	631 N2-14 DO YOU USE OR REFER TO	830 NZ-13 DO YOU USE OR REFER TO	829 NZ-12 DO YOU USE OR REFER TO CCERCIVE	828 N2-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP WAVEFORMS FOR MASNETIC AMPLIFIERS	WINDINGS OR LOAD RESISTORS OF SINGLE WINDING SATURAB	827 NZ-10 DO YOU MEASURE OUTPUT MAVEFORMS	MAVEFORMS ACRO	825 N2-08 DO YOU US	DY-1SK	

PULSE MODULATION SYSTEMS 7 GPSM15 PAGE 000000000000000 0000 C 0 0 09 50 04 100 31 7 612 120 24 17 20 26 72 39 18 4 4 20 22 22 28 28 28 18 20 15 17 13 22 12 6.5 58 17 SSB LON'T REMEMBER WHICH SSR 02-12 DO YGU WGRK ON PULSE-CODE MODULATION (PCM) SYSTEMS 02-13 DO YOU WORK ON LINE PULSING MODULATION SYSTEMS 02-14 DO YOU WORK ON DON'T REMEMBER WHICH TYPE OF 9 TRANSMITTERS 0 873 01-29 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB TRANSMITTER SCHEMATIC DIAGRAMS 01-30 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB 09 REPLACE PULSE MODULATION SYSTEMS OR REPLACE PULSE MODULATION SYSTEM FREQUENCY CONVERTERS
IF AMPLIFIERS 876 02-02 DO YOU INSPECT PULSE MUDULATION SYSTEMS 877 02-03 DO YOU CLEAN PULSE MODULATION SYSTEMS 878 02-04 DO YOU ALIGN PULSE MODULATION SYSTEMS 879 02-05 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS 88D 02-06 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEM AUDIO AMPLIFIERS BALANCED MODULATORS CARRIER OSCILLATORS BANDWIDTH FILTERS O 872 01-28 DO YOU CALCULATE PEAK POWER OR EFFECTIVE POWER RECEIVER SCHEMATIC DIAGRAMS 2-01 DO YOU WORK ON PULSE MODULATION SYSTEMS IN YOUR 02-09 DO YOU WORK ON PULSE-AMPLITUDE MODULATION (PAM) CRYSTAL FILTERS MECHANICAL FILTERS 02-11 DO YOU WORK ON PULSE-POSITION MODULATION (PPM) 02-10 DO YOU WORK ON PULSE-DUPATION MODULATION (PDM) POWER AMPLIFIERS SYSTEM STAGES

468 01-24 DO YOU USE OR REFER TO SELECTIVE FADING

468 01-25 DO YOU USE OR REFER TO PEAK POWER

470 01-26 DO YOU USE OR REFER TO FREQUENCY STABILITY

471 01-27 DO YOU USE OR REFER TO RESPONSE CURVES FOR DEMODUL ATORS OSCILLATORS LC FILTERS DRIVERS MIXERS PCI MBRS RESPONDING 'YES' BY SELECTED GRPS 558 558 558 558 22222 Z 3 01-09 DO YOU PERFORM TASKS ON 4 01-10 DO YOU PERFORM TASKS ON 6 01-12 DO YOU PERFORM TASKS ON 6 01-12 DO YOU PERFORM TASKS ON 10 01-14 DO YOU PERFORM TASKS ON 9 01-15 DO YOU PERFORM TASKS ON 10 01-16 DO YOU PERFORM TASKS ON 10 01-16 DO YOU PERFORM TASKS ON 2 01-18 DO YOU PERFORM TASKS ON 2 01-18 DO YOU PERFORM TASKS ON 2 01-10 DO YOU PERFORM TASKS ON 4 01-20 DO YOU PERFORM TASKS ON 6 01-22 DO YOU PERFORM TASKS ON 6 01-22 DO YOU PERFORM TASKS ON 10 01-23 DO TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING 02-07 DO YOU PEMOVE 02-08 DO YOU PEMOVE HODULATION SYSTEM 208 0 875 02-01 00 PRESENT SYSTEMS 874 681 859 998 867 883 884 885 988 928 861 865 888 857 863 864 862 0000 0 00 00 0 0 0 000

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

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PCT MBRS RESPONDING "YES" BY SELECTED GRPS

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PCT MBRS RESPONDING "YES" BY SELECTED GRPS.

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DY-15K	PIDS9 P3-26 DO YOU TUNE PARAMETRIC AMPLIFIERS PIDGO P3-27 DO YOU PERFORM OPERATIONAL CHECKS OF PAPAMETRIC	FIGGI P3-26 DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS PIGGS P3-29 DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC	PIGGS P3-36 DO YOU PEMOVE OF REPLACE PARAMETRIC APPLIFIER	P3-31 DO YOU	P3-32 DO YOU CLEAN	PIDGT P3-34 DO YOU TUNE MAGNETRONS PIDGS P3-35 DO YOU PEDERDM OPERATIONAL CHECKS OF MAGNETRONS	P3-36 DO YOU TROUBLESHOOT MAGNETRONS	P3-37 DO YOU 9EMOVE OR	PIG/1 P3-34 DO YOU YEMOVE OF PEPLACE MAGNETRON COMPONENTS PIG/2 P2-39 DO YOU USE OR REFER TO THE OPERATING PHINCIPLES OF	THO-CAVITY KLYSTPONS COLLECTOR PLATES FIGHT DO 40 USE OR REFER TO THE OPERATING PRINCIPLES OF	TWO-CAVITY ALYSTPONS CATCHER CAVITIES P1074 P3-41 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	TWO-CAVITY ALYSIPONS CATCHER GRIDS	PIO75 P3-42 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF THO-CAVITY KLYSTRONS FFEDBACK LOOPS	PIG76 P3-43 30 YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	PIGTT P3-44 DO YOU USE OF REFER TO THE OPERATING PRINCIPLES OF	TWO-CAVITY ALYSTRONS BUNCHER GRIDS P1078 P2-45 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	TWO-CAVITY ALYSTRONS BUNCHER CAVITIES	PIG79 P3-46 DG YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY ALYSTRONS CONTROL GRIDS	PICED P3-47 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	OR REFER		PIGES PS-5G DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	REFLEX KLYSTROM SRID CAVITY SAPS PIC84 PI-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	PEFLEX ALYSTPON RESONANT CAVITIES		OR REFER	

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DY-TSK	DO YOU USE	PICB9 P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	TRAVELING-WAVE TUBES FILAMENTS	TRAVELING-WAVE TUBES CATHODES		DO YOU USE	TRAVELING-WAVE TUBES ANODES	TRAVELING-WAVE TUBES HELTXES	ο.	PILOSS P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	TORVELING-WAVE TUBES MAGNETS	TRUNG TOTAL THE TANK THEFT ATTENDED OF THE OFFICE OF	PIG97 P3-64 DO YOU PEPFONN TASKS ON PARAMETRIC AMPLIFIER FERRITE	PID98 P3-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL	CAVITIES	FIGURE 15-66 US TOU PERFORM TASKS ON PARAMETER ANTELLIER TOLER	0	DIODES DI	ISOLATORS	0	PILOS PS-70 DO YOU PERFORM TASKS ON ANODES	P3-71 DO YOU PEPFORM TASKS ON	P3-72 DO YOU PERFORM TASKS ON COUPLING LOOPS	PT-T3 DO YOU PEPFORM TASKS ON HEATER LE	P3-74 DO YOU PERFORM TASKS ON	0	TO GI-SI DO YOU USE OR REFER TO S	1 01-02 DO YOU USE OR REFER TO	-		- 0	Q1115 Q1-06 DG YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF

PCT MBRS RESPONDING "YES" BY SELECTED GRPS

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				STORAGE DEVICES										DIGITAL TO ANALOG CONVERTERS											The second secon								
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DY-TSK	GIIIS 41-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A Smift register after a specified number of shift pulses have passed	GILLY G2-CI DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR ALOGAGE DEVICES IN YOUR PRESENT JOH	YOU USE OR REFER TO DELA	02-03 GO YOU USE OR REFER TO MAGNETIC	GZ-UM DO YOU USE OR REFER TO	02-05 DO YOU USE OR REFER TO	NO TOO USE ON METER TO ACCE.	G1123 G2-07 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY	SYSTEMS	G1124 G2-59 50 YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS	OF-01 IN YOUR PRESENT JOB. DO YOU WINE UN	ANALOG (E/A) CONVERTERS, ANALOG-TO-DIGITAL	GILLY G3-32 DO YOU COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL	DIGITAL-TO-ANALOG (D/A) CONVERTERS FOR GIVEN INPUT	THE SENERAL RULE THAT THE SENERAL RULE THAT THE	•	CONVERTERS IN DETERMINED BY ADDING THE DENOMINATORS OF THE	G1129 GT-C4 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN PINARY	COUNTS IN ELECTRONIC DIGITAL-TO-ANALOG (D/A)	GILSO GI-OS DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME		ANALOG-10-DIGITAL (A/U) CONVERTER CIRCUITS		GILST GS-DB DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE	G1134 G2-09 DO YOU PERFORM DON'T REMEMBER WHICH FUNCTION TASKS	ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER	G1135 G3-1G DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/G	GILTS GT-11 DC YOU USE OR REFER TO HOLD FUNCTION OF A/C	CONVERTERS	CONVERTERS	G1138 G3-13 GO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D	G1139 G3-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALGG-10-	DIGITAL LATUR CONVENIENS

PET MBRS RESPONDING "YES" BY SELECTED GRPS.
TASK GROUP SUMMARY
PERCENT WEMBERS PERFORMING

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DY-15K	SPC SI 276 2	SPC SPC 279 280	
PRESENT JOR	51	0 09	PHANTASTRONS
CIRCUITY YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER	63	14 43	
R2-D2 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER	0,	39 40	SCHMITT TRIGGERS
RILMS R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS	35 4	4 31	
IN YOUR PRESENT JOB ON YOU FABRICATE MULTICONDUCTOR		83 57	
RII45 R3-32 DO YOU FABRICATE COAXIAL CABLES	72 7	78 69	CABLE FABRICATION
I-DI IN YOUR PRESENT JOB DO YOU PERFORM ANY TASKS ON			
51-02 DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE	42 2	22 50	TABLET OF THE PER TABLET
SI-03 DO YOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING	17 : 1	11 19	through the state of the state
YOUR PRESENT	10 2	22 5	PHOTO SENSITIVE DEVICES
N YOUR PRESENT JOB DO YOU HORK WITH CHOPPER CIRCUITS	-	3 - 10	
YOU MEASURE EXCITATION FREQUENCIES	2	2 0	
DO YOU MEASURE VOLTAGE -CURRENT PHASE BELATIONSHIPS	mı		
SALES DO SOU USE ON METER TO EXCITATION PREQUENCIES	0		
SHIPS	2	9	SWITTAGATY SHOWGHOWS
53-06 DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER CIPCUIT OPERATION	8 2	28 0	(CHOPPER CIRCUITS)
S3-07 DO YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER	10 2	22 5	
CHOPPER CIRCUIT OPERATION	12 2	28 5	
S3-09 DO YOU USE COMPARISON CIRCUITS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	12 2	1 22	
11-01 DDES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH INFRARED SYSTEMS	0	0 0	
DO YOU INSPECT INFRARED SYSTEMS	0	0	INFRARED
TOU CLEAN INFRARED STRIETS	0	0	
DO YOU DEFEATE TAFFARED SYSTEMS	0 0	0	
100	00	00	
TI-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED SYSTEMS	0	0	
TI-ME DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM COMPONENT PARTS	0	0 0	
TI-09 DO YOU PEMOVE OR REPLACE MAJOR ASSEMBLIES OF INFRARED SYSTEMS	2	2 0	
11-10 DO YOU REMOVE OR REPLACE INFRARED SYSTEM COMPONENT PARTS	2	^	

			LASERS			
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SPC 279	0000000000	00000	0000	0 0 0 0	0 000000	000000
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DY-15K	11-11 DO YGU USE OR REFER TO F 11-12 DO YOU USE OR REFER TO I 11-13 DO YOU USE OR REFER TO M 11-14 DO YOU USE OR REFER TO G 11-15 DO YOU USE OR REFER TO G 11-17 DO YOU USE OR REFER TO A 11-18 DO YOU USE OR REFER TO A 11-19 DO YOU USE OR REFER TO A 11-20 DO YOU PEPCORM TASKS ON 11-22 DO YOU PEPFORM TASKS ON	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	LASEPS 72-02 D 72-03 D 72-04 D 72-05 D	ASER SYSTEMS ASER SYSTEMS 4.51 DO YOU TROUBLESHOOT P 4.51 TENS -0.5 DO YOU TROUBLESHOOT T 5.51 TENS -0.5 DO YOU TROUBLESHOOT T 5.51 TENS -0.5 DO YOU REMOVE OF REPL	SYSTEMS T2-10 DO YOU BEMOVE OR PEPLAC SYSTEMS T2-11 DO YOU USE OR REFER TO T2-12 DO YOU USE OR REFER TO T2-14 DO YOU USE OR REFER TO T2-15 DO YOU USE OR REFER TO T2-16 DO YOU USE OR REFER TO T2-16 DO YOU USE OR REFER TO	TIZOZ 12-17 DO YGU USE OR REFER TO SPONTANEOUS EMISSION TIZOZ 17-16 DO YGU USE OR REFER TO SIMULATED EMISSION TIZO4 12-19 DO YGU USE OR REFER TO CHERENCE OR INCOHERENCE TIZO5 17-26 DO YGU USE OR REFER TO INVERSION LEVEL TIZO5 17-21 DO YGU USE OR REFER TO MONCCHROMATIC TIZO5 17-22 DO YGU WORN WITH ACTIVE MATERIALS TIZO5 17-24 DO YGU WORN WITH PUMPING SOURCES TIZO5 17-24 DO YGU WORN WITH FULL SILVERED (100% REFLECTIVE)

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DY-TSA	TI210 12-25 DO YOU WORK MITH HALF SILVERED (92% REFLECTIVE)	-	12-27 DO YOU WORK WITH RUBY	YOU WORK KITH HELIUM-NE	12-29 DO YOU WORK WITH	72-30 DO YOU WORK WITH XENON	12-31 DO YOU WORK WITH	12-32 DO YOU MORK WITH ARGON	12-33 DO YOU WORK WITH NEODYMIUM	12-34 DO YOU WORK WITH GALLIUM AF	IN YOUR PRESENT JOB DO YOU	SUCH AS DIRECT VIEW STORAGE (UVST) OF WULLIPLE MODE		20-21	13-04 00 YOU	13-05 DO YOU OPERATE SYSTEMS THAT	13-DO DO YOU TROUBLESHOOT DYST OR MMST	CIPCUITS	11226 13-07 DO YOU REMOVE OR REPLACE DVST OR MMST TUBES FROM	MAJOR ASSEMBLIES OF UNITS		THE VARIOUS ELEMENTS OF DUST	00 400	THE VAPIOUS ELFMENTS OF MMST	13-10 DO YOU PERFORM TASKS ON FL	13-11 DO YOU PERFORM TASKS ON WR	13-12 DO YOU PERFORM TASKS ON ATT	T1232 13-13 DO YOU PERFORM TASKS ON ERASE GUNS	TA VOLID POECENT OF OR	1848	U1235 U1-92 DO YOU USE OR REFER TO DECIMAL SYSTEMS	U1-03 DO YOU USE OR REFER TO PRO	U1-04 DO YOU USE OR REFER TO	U1-05 DO YOU USE OR REFER TO 8-4-2	U1-06 DO YOU USE OR REFER TO FOUR	UI-07 DO YOU USE OR REFER TO BIN	UI-08 DO YOU USE OR REFER TO TIME-	UI-09 DO YOU USE OR REFER TO DAT	U1243 U1-10 DO YOU USE OR REFER TO ADDRESS WORDS	HILLS DO YOU HEE ON REFER TO STE	U1-13 DO YOU USE OR REFER TO INFO	7 UI-14 GO YOU PEPFORM TASKS ON SINGLE LEVEL	UIZ48 UI-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING

PCT MBRS RESPONDING .YES. BY SELECTED GPPS

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TASH GROUP SUPMARY PERCFNT WENDERS PERFORMING

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SPC 280	5 %	~~	~	94 83	38	38	5
SPC 279	••	000	-	46	20	42 50	-
SPC 276	mN	~~.	2	81	45	42	P .
0Y-TSK	U1249 U1-16 DO YOU PERFORM TASKS ON INPUT DEVICES U1250 U1-17 DO YOU PEPFORM TASKS ON STORAGE DEVICES	U1251 U1-18 DO YOU PEPFORM TASKS ON ARITHMETIC SECTIONS U1252 U1-19 DO YOU PEPFORM TASKS ON CONTROL SECTIONS U1353 U1-19 DO YOU PEPFORM TASKS ON CONTROL SECTIONS	U1254 U1-21 DO YOU PEPFORM TASKS ON POWER SUPPLIES	U1255 U2-01 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND	U1256 U2-02 DO YOU USE LOGARITHMS TO COMPUTE SUTPUT POWER IN DECINELS	UIZS7 LZ-03 DO YOU USE LOSARITHMS TO COMPUTE ATTENUATION IN DECISELS	UIZSB UZ-D4 DUMMY TASK TO IDENTIFY INCOMBENTS WHO PERFORMED NO TASKS

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AIR FORCE OCCUPATIONAL MEASUREMENT CENTER LACKLAND A--ETC F/G 5/9
MISSILE WARNING AND SPACE SURVEILLANCE SENSOR REPAIR CAREER LAD--ETC(U)
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SUPPLEMENTARY

INFORMATION

UNCLASSIFIED SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered) READ INSTRUCTIONS BEFORE COMPLETING FORM REPORT DOCUMENTATION PAGE 1. REPORT NUMBER 2. GOVT ACCESSION NO. 3. RECIPIENT'S CATALOG NUMBER AD A048 67 5. TYPE OF REPORT & PERIOD COVERED AFPT 90-309-222 4. TITLE (and Subtitle) Missile Warning and Space Surveillance Sensor FINAL Repair Career Ladder April 77 - July 77 **AFSC 309X0** 6. PERFORMING ORG. REPORT NUMBER 8. CONTRACT OR GRANT NUMBER(s) 7. AUTHOR(a) Thomas J. O'Connor Thomas E. Ulrich PERFORMING ORGANIZATION NAME AND ADDRESS PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS Occupational Survey Branch USAF Occupational Measurement Center Lackland AFB TX 78236 11. CONTROLLING OFFICE NAME AND ADDRESS 12. REPORT DATE 15 October 1977 SAME AS ITEM 9 13. NUMBER OF PAGES 15. SECURITY CLASS, (of this report) 14. MONITORING AGENCY NAME & ADDRESS(II different from Controlling Office) UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING

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Approved for public release; distribution unlimited

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

4048 679

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Electronic principles

Electronics

Basic electronics

Air Force training

Avionics

Teaching methods

Electronic equipment

Training

Electronic technicians

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned to Missile Warning and Space Surveillance Sensor Repair Systems Specialty (AFSC 309X0). The report gives a detailed listing of the technical tasks and knowledge needed to perform the jobs within the specialty or career ladder. -

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This specialty has the following functions:

Superintends installation, replacement, maintenance, repair, overhaul, and modification of missile warning and space surveillance sensor equipment, special diagnostic checkout equipment; and associated aerospace ground equipment.

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